BEST AVAILABLE COPY

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 8 July 2004 (08.07.2004)

(10) International Publication Number WO 2004/057715 A3

E21B 23/06 (51) International Patent Classification7:

(21) International Application Number:

PCT/NO2003/000410

(22) International Filing Date: 9 December 2003 (09.12.2003)

(25) Filing Language:

(26) Publication Language:

English

(30) Priority Data: 20025911

10 December 2002 (10.12.2002) NO

(71) Applicant and

(72) Inventor: FREYER, Rune [NO/NO]: Valandsgaten 12. N-4010 STAVANGER (NO).

(74) Agent: HÁMSØ PATENTBYRÁ ANS: P.O. Box 171, N-4302 SANDNES (NO).

(81) Designated States (national): AE, AG, AL, AM, AT (mility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA. CH. CN. CO. CR. CU. CZ (utility model). CZ. DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, H., IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, ET, LU, LV, MA, MD, MG. MK, MN, MW, MX, MZ, NL NO, NZ, OM, PG, PH, PL, PT (utility model), PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,

US, UZ, VC, VN, YU, ZA, ZM, ZW, (84) Designated States (regional): ARIPO patent (BW. GH. GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW).

Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES. FL FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BE BJ, CE, CG, CI, CM, GA,

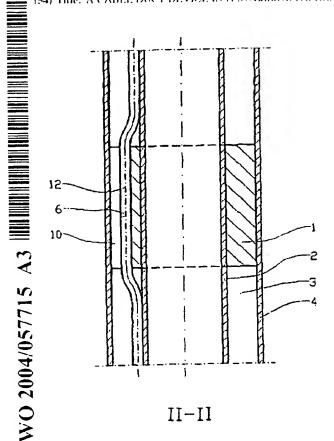
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Communed on next page]

(54) Title: A CABLE DUCT DEVICE IN A SWELLING PACKER



II-II

(57) Abstract: A cable duct device in a swellable packer (1) of the kind in which the packer (1) is adapted to be able of sealing an annulus (3), and in which the swellable packer (1) is provided with at least one opening (6) therethrough adapted to constitute a duct for a cable (12).

BEST AVAILABLE COPY

WO 2004/057715 A3

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report: 14 October 2004

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No. PCT/NO 2003/000410

A. CLASSIFICATION OF SUBJECT MATTER									
IPC7: E21B 23/06 According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS SEARCHED									
Minimum documentation searched (classification system followed by classification symbols)									
IPC7: E21B									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
SE,DK,FI,NO classes as above									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)									
WPI DATA, EPO-INTERNAL									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category*	Citation of document, with indication, where app	Relevant to claim No.							
Х	US 6173788 B1 (JEFFREY J. LEMBECKE ET AL), 1-5 16 January 2001 (16.01.2001), See whole document								
X	US 3899631 A1 (BILLY E. CLARK), (12.08.1975), see wole docum	1-5							
A	US 6135210 A1 (OLEGARIO S. RIVAS (24.10.2000), column 4, line line 20	1-5							
A	US 2242166 A1 (E. O. BENNETT), 13 May 1941 1-5 (13.05.1941), figures 3-4								
I further documents are listed in the continuation of Box C. X See patent family annex.									
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "C" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention									
"E" carrier filing d	application or patent but published on or after the international ate and which may throw doubts on priority claim(s) or which is	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone							
ಭೀರಾವಿ	establish the publication date of another citation or other reason (as specified) ant referring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination							
"P" docume	ent published prior to the international filing date but later than prity date claimed	being obvious to a person skilled in the art "&" document member of the same patent family							
	e actual completion of the international search	Date of mailing of the international search report							
18 August 2004		2 0 -08- 2004							
	mailing address of the ISA/	Authorized officer							
Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Kerstin Waczinska/MN									
	No. + 46 8 666 02 86	Telephone No. + 46 8 782 25 00							

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

BEST AVAILABLE COPY
International application No.

Information on patent family members

PCT/NO 2003/000410

US	6173788	B1	16/01/2001	GB GB NO NO	2336170 A,B 9907757 D 315437 B 991638 A	13/10/1999 00/00/0000 01/09/2003 08/10/1999
US	3899631	A1	12/08/1975	NONE		
US	6135210	A1	24/10/2000	CA GB GB	2277566 A 2339816 A,B 9915984 D	16/01/2000 09/02/2000 00/00/0000
US	2242166	A1	13/05/1941	NONE		

Form PCT/ISA/210 (patent family annex) (January 2004)